



Mastics, Coatings, Adhesives, Sealants

# CHIL-SEAL<sup>®</sup> CP-50A MV1 Coating

## COMBINATION COATING AND ADHESIVE FOR FINISHING AND ADHERING CANVAS AND OTHER LAGGING CLOTHS OVER THERMAL INSULATION

### DESCRIPTION

CHIL-SEAL<sup>®</sup> CP-50A MV1 Coating is a white coating which is also an excellent adhesive. It brushes easily and yet forms a tough film even over surfaces such as glass cloth or canvas. Being a water based material, it is safe to use; it does not attack plastic foams or other adhesives. Brushes and tools are easily cleaned with water. CHIL-SEAL CP-50A MV1 Coating is fire resistive. It is also available in Marine Grade (CP-50A HV2 Coating), which meets MIL-A-3316 specification and USCG 164.012.

### USES

CHIL-SEAL CP-50A MV1 Coating is used for adhering fabrics such as glass cloth, canvas (up to 8 oz.) and brattice cloth to many insulated surfaces such as round and rectangular duct work and equipment. It is also used for adhering the laps of these fabrics as well as some woven glass cloths on pipe insulation.

CHIL-SEAL CP-50A MV1 Coating is used as a coating over all of the above mentioned fabrics and also finds use as a coating over plastic foam materials such as polystyrene. CHIL-SEAL CP-50A MV1 Coating can be brushed on the joints of duct liner insulation to help prevent air erosion of the glass fiber.

### APPLICATION

CHIL-SEAL CP-50A MV1 Coating is easily applied by brush, roller coat or spray. It is sometimes used for dipping canvas where more complete saturation and shrinkage is desired. The normal application is by brush; the bridging properties of this coating give a smooth finish even over relatively rough fabrics such as 8 oz. canvas and brattice cloth.

### ADVANTAGES

- CHIL-SEAL CP-50A MV1 Coating is non-flammable in the wet state and fire-resistive when dry.
- It contains no solvents to attack insulations or facings.
- The combination of properties afforded by this material gives a great versatility both as an adhesive and a coating.
- The polymeric resins make this an adhesive of high bond strength and unusual permanence.
- The tough film is washable and abrasion resistant.

### CERTIFIED

- Meets NFPA Standard 90-A & 90-B 25/50 requirements.
- This product has been tested according to ASTM E-84 (Surface Burning Characteristics of Building Materials).
- Meets requirements for LEED IEQ 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 48 g/l, less water and exempt solvents.

### COLOR

White

### WET WEIGHT

10.5 lbs./U.S. gal.  
1.3 kg/liter

### AVERAGE NON-VOLATILE

35% by volume, 47% by weight.

### SERVICE TEMPERATURE RANGE

(Temperature to which dry film is subjected.)  
-20°F to 180°F  
-29°C to 83°C

### APPLICATION TEMPERATURE RANGE

40°F to 100°F  
4°C to 38°C

### DRYING TIME

To Touch—3 hours  
Through -12 to 36 hours  
(Drying time will vary depending upon film thickness, temperature and humidity.)

### COVERAGE

1.0-1.25 U.S. Gal./100 sq. ft. (.4-.5 l/sq. m) per coat on canvas.  
1.25-2.50 U.S. Gal./100 sq. ft. (.5-1.0 l/sq. m) per coat on brattice cloth.  
1.0 U.S. Gal./100 sq. ft. (.4 l/sq. m) per coat on smooth dense surfaces.  
(Coverage will vary with substrate & membrane.)

### CLEAN-UP

Warm, soapy water (wet) Mineral Spirits (dry)

### WATER VAPOR PERMEANCE

ASTM F 1249, 0.07 perms at 27 mils dry. Tested at 100°F (38°C) and 90% RH.

### SURFACE BURNING CHARACTERISTICS (ASTM E-84, U.L. TUNNEL TEST)

|  |                                   |
|--|-----------------------------------|
| Flame Spread                               | 10                                |
| Smoke Develop                              | 0                                 |
| Surface                                    | Inorganic reinforced cement board |
| Number of Coats                            | 1                                 |
| Coverage                                   | 80 sq. ft/gal.                    |
| Flash Point of liquid coating, closed cup: | No flash to boiling.              |

Visit us on the web at [www.metrosupplycompany.com](http://www.metrosupplycompany.com)

CP-50A MV1 contains no asbestos, lead, or mercury compounds.

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## Suggested Specifications

## CHIL-SEAL® CP-50A MV1

### Pipe insulation, duct insulation, and equipment

All insulation finished with canvas (or other fabric finishes) shall have their laps adhered with CHIL-SEAL® CP-50A MV1 Coating as manufactured by Foster® Products. A finish coat of CHIL-SEAL CP-50A MV1 Coating shall be applied to the entire outer surface of the lagging cloth at a coverage not less than 1 gallon per 100 sq. ft. (0.4 l/sq. m.) for canvas and 1.25 gallons per 100 sq. ft. (.51 l/sq. m.) for brattice cloth.

### NOTES TO SPECIFYING ENGINEER

1. It is recommended that in using most types of pre-sized glass cloth facings, CHIL-STIX® FRN CP-82 Adhesive be used as the lap adhesive.

## Application Guide and Suggested Procedures

### 1. USE OF MATERIAL

CHIL-SEAL CP-50A MV1 Coating brushes easily. **STIR WELL, DO NOT THIN.** Where dipping of canvas is specified or recommended, dilute 4 parts of CHIL-SEAL CP-50A MV1 Coating with a maximum of 1 part water. It should be stored indoors and above freezing temperatures, and should not be applied below 40°F (4°C) nor above 100°F (38°C) for best results.

### 2. THE CONDITION OF THE SURFACE TO BE ADHERED OR COATED

Certain surfaces which are dusty or porous such as calcium silicate or certain mineral fiber materials should first be primed with a light coat of CHIL-SEAL CP-50A MV1 diluted 50% with water for proper bonding. A coating or adhesive will adhere no better than the integrity of the surface to which it is applied.

### 3. APPLICATION

CHIL-SEAL CP-50A MV1 Coating is extremely easy to apply by brush or roller coater and the same procedure would be used as applying latex paints or similar brush-on coating. Brushes or other tools should be kept in water and cleaned with hot, soapy water.

CHIL-SEAL CP-50A MV1 Coating may be sprayed with many types of equipment, including airless spray. It may also be sprayed with conventional Mastic spray equipment using an external atomizing spray gun. Many manufacturers of spray

equipment can make detailed recommendations for any number of types of equipment. The spray equipment and techniques would be similar to those used for applying block sealers or heavy latex paints. For best results, we suggest the following airless spray equipment.

|            |  |
|------------|--|
| PUMP       | Graco Bulldog Hydramastic, 40:1 ratio (model 204-925) air regulator with inductor plate (207-039).   |
| COMPRESSOR | Capable of 75 CFM and maintaining 100 PSIG.  |
| FLUID HOSE | High pressure capable of 4,000 PSI. One inch up to 150 feet. ¾" after the first 150 feet. Use 8' (2.4 m) ½" I.D. hose for coupling to the gun. |
| GUN        | Graco Hydra-Mastic #207-300 with Reverse-A-Clean 205-614.  |
| TIP SIZES  | 627 to 635.  |

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### 4. HINTS FOR SUCCESS

CHIL-SEAL CP-50A MV1 Coating is an excellent adhesive and also has good resistance to many chemicals and solvents. Spillage of this material should be cleaned immediately by washing with water. If it is allowed to dry, the best method for attempted clean-up is hot water, detergent and a wire brush.

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